

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 039322-0226	SERIAL NO. Unassigned
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT James P. Hoeffler et al.	
		FILING DATE 08/28/2001	GROUP ART UNIT Unassigned


09/939769
08/28/01

U.S. PATENT DOCUMENTS


EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
SR ↓	A1	5,658,763	08/97	Dorai et al			
	A2	5,525,491	06/96	Huston et al			
	A3	5,558,852	09/96	Bigner et al			
	A4	5,610,013	03/97	Van den Eynde et al			
	A5	5,622,852	04/97	Korsmeyer	435	325	
	A6	5,565,332	10/96	Hoogenboom et al	530	387.1	
	A7	4,946,778	09/90	Ladner et al	435	69.6	

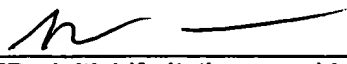
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SR ↓	A8	Brunelli & Pall, Yeast, 1993, vol. 9, pp. 309-1318, Abstract
	A9	Miller et al, FASEB J., 9:190-199, 1995
	A10	Nature Biotechnology, 15:815, 1997
	A11	Orkin et al., Report & Recommendation of the Panel to Assess the NH Investment in Research on Gene Therapy, 1995
	A12	Marshall, Science, 209:1050-1055, 1995
	A13	Culver et al., TIG, 10:174-178, 1994
	A14	Hensel et al., Stedman's Medical Dictionary, 25 th Edition, p. 798, 1990, Williams & Wilkins, Baltimore
	A15	Wenzl et al, Yeast, 8:667-668, 1992
	A16	Reynes et al, Gene Ther. Meet. Cold Spring Harbor, 1994, Abstract 140
	A17	Gatignol et al, Mol. Gen. Genet., 207:342-348, 1987
	A18	Jespers, Laurent S., et al., "Guiding the selection of human antibodies from phage display repertoires to a Single epitope of an antigen", Bio/Technology, 12:899, (1994)
	A19	Mendelsohn et al., "Application of interaction traps/ two-hybrid systems to biotechnology research", Curr. Op. In Biol., 5:482, (1994)
	A20	Fields et al., "The two-hybrid systems; an assay for protein; protein interactions", TIG, 10:287 (1994)

EXAMINER 	DATE CONSIDERED 10/15/04
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- * EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

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SR	A21	Phizicky et al., Protein-protein interactions; Methods for detection and analysis", Microbiological Reviews, 59:94, (1995)					
	A22	Allen et al., "Finding prospective partners in the library; the two-hybrid system and phage display find a match" TIBS, 20:511 (1995)					
	A23	Griffiths et al., "Isolation of high affinity human antibodies directly from large synthetic repertoires", EMBO, 13:3245, (1994)					
	A24	De Kruijff et al., "Selection and application of human single chain Fv antibody fragments", J. Mol. Biol., 248:97, (1995)					
	A25	Yang et al., "Protein-peptide interactions analyzed with the yeast two-hybrid system", Nucl. Acids Res., 23:1152, (1995)					
	A26	Estojak et al., "Correlation of two-hybrid affinity data with in vitro measurements" Molecular and Cellular Biology, 15:5820, (1995)					
	A27	Somia et al., "Generation of targeted retroviral vectors by using single chain variable fragment: An approach To in vivo gene delivery", PNAS, 92:7570 (1995)					
	A28	Ditzel et al., "Neutralizing recombinant human antibodies/isolated by using an epitope-masking procedure" J. Immunol., 154:893, (1995)					
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	A30	Vaughan et al., Human antibodies with sub-nanomolar affinities/phage display library", Nature Biotechnology, 14:309, (1996)					
	A31	Neri et al., Engineering recombinant antibodies for immunotherapy", Cell Biophysics, 27:47, (1995)					
	A32	Llewelyn et al., "Monoclonal antibodies in medicine", BMJ, 305:1269, (1992)					
	A33	Hawkins et al., "Selection of phage antibodies by binding affinity", J. Mol. Biol., 226:889, (1992)					
	A34	Hawkins et al., "Adapting antibodies for clinical use", BMJ, 305:1348, (1992)					
	A35	Russell et al., Principles of antibody therapy", BMJ, 305:1424, (1992)					
	A36	Marks et al., "Oligonucleotide primers for PCR amplification of human immunoglobulin variable genes and Design of family-specific oligonucleotide probes", Eur. J. Immunol., 21:985, (1991)					
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82 ↓	A38	Werge et al., Intracellular Immunization, FEBS, 274:193, (1990)					
	A39	Hoeffler et al., "Towards isolation of single-chain variable domains with high-affinity antigen-binding Characteristics using the two-hybrid system in yeast", Meeting Abstract, (Tahoe, CA; February 1994)					
		J. Cell Biochem, 1994 Supp. 18D, 190					
	A40	Hollinger et al., "Engineering biospecific antibodies", Curr. Op. Biol., 4:446, (1993)					
✓	A41	Biocca et al., "Intracellular expression of single chain Fv fragments inhibits", Biochem. Biophys. Res. Comm., 197:422, (1993)					
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FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
SR ↓	A1	✓ WO96 30512 A	10/96	WIPO	/	/	/
	A2	✓ WO 96 02561 A	02/96	WIPO			
	A3	✓ 0 557 897 A	09/00	EUROPE			
	A4	✓ WO 00 54057 A	09/00	WIPO			
	A5	✓ WO 01 48017 A	07/01	WIPO			
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82 ↓	B1	GARGANO, N., ET AL., "From Phase Libraries To Intracellular Immunization" Intracellular Antibodies: Development and applications, Springer Verlag, Berlin, DE (1997), pp. 173-186, XP000916894					
	B2	MARASCO, W.A., "Intracellular antibodies (intrabodies) as research reagents and therapeutic molecules for gene therapy" IMMUNOTECHNOLOGY, ELSEVIER SCIENCE PUBLISHERS BV, NL, Vol. 1, No. 1, (May 1995) pp 1-19, XP004052680					
	B3	MARASCO, W., "Intrabodies: turning the humoral immune system outside in for intracellular immunization" GENE THERAPY, MACMILLAN PRESS LT., BASINGSTOKE, GB, Vol. 4, no. 1, (Jan. 1997), pp. 11-15, XP002097642					
	B4	MHASHILKAR, A. M., ET AL., "Inhibition of HIV-1 Tat-mediated LTR transactivation and HIV-1 infection by anti-Tat single chain intrabodies", EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, Vol. 14, No. 7, 1995, pp. 1542-1551, XP002089075					
	B5	HAARD, DE H J W, ET AL., "SELECTION OF RECOMBINANT, LIBRARY-DERIVED ANTIBODY FRAGMENTS AGAINST P24 FOR HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 DIAGNOSTICS" CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY, AMERICAN SOCIETY FOR MICROBIOLOGY, US, Vol. , No. 5, Sept. 1998, pp. 636-644, XP000939091					
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issus number(s), publisher, city and/or country where published.	T*
SR ↓	A9	Mhashilkar A. M. et al., "Inhibition of HIV-1 Tat-mediated LTR transactivation and HIV-1 infection by anti-Tat single chain intrabodies," The EMBO Journal, vol. 14, no. 7, pp. 1542-1551 (1995) <i>DUPLICATE</i>	
	A10	Haard, De H., J. W. et al., "Selection of Recombinant Library-Derived Antibody Fragments against p24 for Human Immunodeficiency Virus Type 1 diagnostics," Clin. Diagn. Lab. Immunol., vol. 5, no. 5, pp. 638-644 (1998) <i>DUPLICATE</i>	
	A11	Vialtin M. et al., "Selection of antibodies for intracellular function using a two-hybrid in vivo system," PNAS, vol. 96, no. 21, pp. 11723-11728 (1999)	
	A12	De Jaeger Geert et al., "Analysis of the interaction between single-chain variable fragments and their antigen in a reducing intracellular environment using the two-hybrid system," FEBS Letter, vol. 487, no. 2-3, pp. 318-320 (2000)	
	A13	Portner-Taliana A. et al., "In vivo selection of single-chain antibodies using a yeast two-hybrid system," Journal of Immunology, vol. 238, no. 1-2 (2000)	

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